

## CUNY Academic Commons - Feature #12800

### Automated scan for database schema validity

2020-05-13 09:27 PM - Boone Gorges

<b>Status:</b> Resolved	<b>Start date:</b> 2020-05-13
<b>Priority name:</b> Normal	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 0%
<b>Category name:</b> Internal Tools and Workflow	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> 1.17.0	
<b>Description</b> Following up on <a href="#">#12598</a> , I'll be working on tools to ensure that incompatible database table schema changes aren't introduced into our codebase.	
<b>Related issues:</b> Related to CUNY Academic Commons - Feature #12598: Investigate and remediate ... <b>Resolved</b> <b>2020-03-31</b>	

#### History

##### #1 - 2020-05-13 09:37 PM - Boone Gorges

<https://github.com/cuny-academic-commons/cac/commit/f39822996fe5429cca11e1ad0b886cd90166fa2e> introduces a framework for doing this kind of scan.

I've introduced a new PHPCS ruleset CAC. This ruleset includes the PHPCompatibilityWP ruleset (which we were already using) and introduces a custom sniff RequirePrimaryKey. This setup allows us to add more sniffs in the future, both custom and off-the-shelf.

The RequirePrimaryKey sniff looks for strings of the form 'CREATE TABLE' (even those that are concatenated and/or interpolated) and then ensures that they have the text 'PRIMARY KEY' in them. This is not at all a perfect system - it's viable to certain kinds of false positives, and it will almost certainly miss problematic cases. But it's a starting place, and I will continue to work on it.

##### #2 - 2020-05-13 09:43 PM - Boone Gorges

- Related to Feature #12598: Investigate and remediate database tables without a primary key added

##### #3 - 2020-05-18 02:22 PM - Boone Gorges

I've completed work on this tool for the time being. I'll be sure to monitor the output of this scan before each release and take action as appropriate.

##### #4 - 2020-05-18 02:23 PM - Boone Gorges

- Status changed from New to Resolved